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EXAMINER

TO, BAOQUOC N

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 10/04/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/004,952

Applicant(s)

ROCHE, ET AL.

Examiner

Baoquoc N To

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-63 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-63 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 4,5.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. Claims 1-63 are presented for examination.

#### *Information Disclosure Statement*

2. The information disclosure statement (IDS) submitted on 07/01/02 and 07/06/02. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

#### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al. (Publication No. US. 2001/0044720 A1).

Regarding on claims 1 and 60, Lee teaches a method of fulfilling an information need employing an index stored on a computer-readable medium and comprised of preanalyzed contexts of terms appearing within a plurality of documents, comprising the steps of:

receiving a query comprised of one or more fully specified terms and an information need, wherein the information need is represented by one or more at least partially unspecified terms (a single word, a prefix description contain a collection a

words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

identifying contexts in the index that contain the one or more fully specified terms and zero or more at least partially unspecified terms (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3); and

locating one or more matches for the information need within the identified contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 2, Lee teaches identifying documents in the index that contain the one or more at least partially unspecified terms (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 3, Lee teaches converting the query into a finite state machine; and matching the finite state machine against the identified contexts(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 4, Lee teaches the finite state machine is a finite state transducer (All of the M search results from the selected data miners are then combined

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and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 5, Lee teaches the finite state machine allows for the appearance of fully specified and at least partially unspecified terms in any order in a potential matching context(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 6, Lee teaches the finite state machine allows for one or more intervening words between the fully specified and at least partially unspecified terms in a potential matching context(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claims 7, 57 and 59, Lee teaches a method of fulfilling an information need employing an index stored on a computer-readable medium and comprised of preanalyzed contexts of terms appearing within a plurality of documents, information indicating category restrictions that the terms and contexts satisfy, and identifiers of the documents and contexts containing the terms, comprising the steps of:

receiving a query comprised of one or more fully specified terms and an information need and at least a partial restriction on the order that the one or more fully specified terms and the information need may appear in a potential matching context,

wherein the information need is represented by one or more at least partially unspecified terms reflecting a category restriction (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

identifying contexts in the index that contain the one or more fully specified terms and the one or more at least partially unspecified terms in the specified order (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3);

locating one or matches for the information need within the identified contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 8, Lee teaches identifying documents in the index that contain the one or more fully specified terms and the one or more at least partially unspecified terms in the specified order (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 9, Lee teaches converting the query into a finite state machine; and

matching the finite state machine against the identified contexts(All of the M search results from the selected data miners are then combined and scored based on

the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 10, Lee teaches the finite state machine is a finite state transducer(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 11, Lee teaches the finite state machine assigns a dissimilarity weight to appearances of fully specified and at least partially unspecified terms in potential matching context, in orders other than that specified in the query(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 12, Lee teaches the finite state machine allows for one or more intervening words between the fully specified and at least partially unspecified terms in a potential matching context(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding o claim 13, Lee teaches a method of fulfilling an information need employing an index stored on a computer-readable medium and comprised of preanalyzed contexts of terms appearing within a plurality of documents, comprising the steps of:

receiving a query comprised of one or more fully specified terms and an information need, wherein the information need is represented by one or more at least partially unspecified terms(a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

converting the query into a Boolean expression (the string of word being converted to the (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (from paragraph 10 to paragraph 13, lines 1-4);

identifying contexts identifiers satisfying the Boolean expression (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4); and  
locating one or more matches for the information need within the identified contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 14, Lee teaches the identifying step further comprises the steps of:

identifying document identifiers satisfying the Boolean expression(the string of word being converted to the (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (from paragraph 10 to paragraph 13, lines 1-4).



Regarding on claim 15, Lee teaches converting the query into a finite state machine(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3); and

matching the finite state machine against the contents of the contexts associated with the identified context identifiers (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 16, Lee teaches the contexts are stored as finite state machines (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 17, Lee teaches the documents are accessible over the Internet (Internet) (Paragraph 1-12).

Regarding on claim 18, Lee teaches the documents comprise World Wide Web pages(Internet) (Paragraph 1-12).

Regarding on claim 19, Lee teaches accumulating information about the one or more matches as they are located (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 20, Lee teaches assigning a score to a match (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 21, Lee teaches the score reflects the number of times an instance of the match is located among the plurality of documents (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 22, Lee teaches outputting one or more of the matches, or a portion thereof, thereby providing a result for the query(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 23, Lee teaches outputting identifiers or locations of one or more of the documents that contains a match or portion thereof that was output in the outputting step (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 24, Lee teaches a location or a document comprises a uniform resource locator (document retrieved from internet either by hyperlink or URL) (paragraph 5, lines 1-12).

Regarding on claim 25, Lee teaches ranking the documents that contain a match, and wherein the second outputting step comprises outputting the document identifiers or locations of the documents that contain a match in an order based on the ranking

(the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 26, Lee teaches the ranking step comprises ranking a document based on the number of times a match is located within the document (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 27, Lee teaches the category restriction comprises a morphological feature (noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 28, Lee teaches the category restriction comprises a syntactic feature (noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 29, Lee teaches the category restriction comprises a computer program(noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 30, Lee teaches storing a match or a portion thereof (the matched results are store then calculated to present the results to the user( (paragraph 25, lines 1-12) (the matched results are store then calculated to present the results to the user( (paragraph 25, lines 1-12).

Regarding on claim 31, Lee teaches storing a score for the match or portion thereof (the matched results are store then calculated to present the results to the user( (paragraph 25, lines 1-12).

Regarding on claim 32, Lee teaches storing a plurality of matches or portions thereof (the matched results are store then calculated to present the results to the user) (paragraph 25, lines 1-12).

Regarding on claim 33, Lee teaches a score for a plurality of matches or portions thereof (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 34, Lee teaches the index comprises locations of terms within documents(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 35, Lee teaches the locating step further comprises:  
determining the location of a term in the query within a document using the index (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3); and

locating a match for the query based on the location of the term within the document (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 36, Lee teaches ranking a plurality of the located matches or portions thereof(the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 37, Lee teaches ranking a located match or a portion thereof based on the content of a plurality of documents identified in the identifying step (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 38, Lee teaches ranking a located match or a portion thereof based on the content of a majority of documents identified in the identifying step (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

.....Regarding on claim 39, Lee teaches the ranking is based on one or more features selected from the list consisting of the location of a match within a document, a weight assigned to a document that contains a match, the age of a document that contains a match, the source of a document that contains a match, and a format feature of a match within a document (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

.....Regarding on claim 40, Lee teaches ranking a located match or a portion thereof based on the number of times an instance of the match is located within a plurality of documents identified in the identifying step (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

..... Regarding on claim 41, Lee teaches ranking a located match or a portion thereof based on the number of times an instance of the match is located within a majority of documents identified in the identifying step (the scored is calculated by the

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occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 42, Lee teaches outputting one or more of the located matches, or one or more portions thereof, in an order based on the ranking, thereby providing a result for the query (these score result across the multiple domains are then represented to the user as the results of the search) (paragraph 15, lines 1-12).

Regarding on claim 43, Lee teaches outputting an indication of the ranking of a located match or portion thereof (these score result across the multiple domains are then represented to the user as the results of the search) (paragraph 15, lines 1-12).

Regarding on claim 44, Lee teaches a method of fulfilling an information need based on documents stored on a computer-readable medium comprising the steps of:

storing an index identifying documents containing terms (the document are indexed in the database system to allow the search to be conducted) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

storing contexts for terms, wherein a context occurs in a document (the contexts are stored for terms in the documents to allow the search to be conducted) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

receiving a query containing an unspecified portion( a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4); and

identifying one or more matches for the query within the contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 45, Lee teaches a method of fulfilling an information need based on documents stored on a computer-readable medium comprising the steps of:

storing an index identifying documents containing terms (the document are indexed in the database system to allow the search to be conducted) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

storing contexts, wherein a context occurs in a document (the descriptions of prefix and post fix analyzed and storing in the database along with the document prior to the search) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

storing information to retrieve a list of contexts for terms (the table stored in the database containing the list of contexts about terms to allow the user to prior search) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

receiving a query containing an at least partially unspecified portion (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4); and

identifying one or more matches for the query within the contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 46, Lee teaches the contexts are preanalyzed (the descriptions of prefix and post fix analyzed and storing in the database along with the document prior to the search which indicate the contexts are preanalyzed prior the search) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4).

Regarding on claim 47, Lee teaches a method of fulfilling an information need based on documents and an index stored on a computer-readable medium comprising the steps of:

storing contexts for terms, wherein the context occurs in a document (the descriptions of prefix and post fix analyzed and storing in the database along with the document prior to the search) (a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

storing information identifying a document in which a context occurs (document are stored along with the context in the database prior to the search) (a



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single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4);

receiving a query containing an unspecified portion(a single word, a prefix description contain a collection a words, and a postfix description containing a collection a words) (paragraph 13, lines 1-4); and

identifying a plurality of matches for the query within the contexts (All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 48, Lee teaches method of generating an index for satisfying an information need from a plurality of document stored on a computer-readable medium, comprising the steps of:

receiving a document (the system receiving the document) (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12) ;

identifying a context in the document (analyzing the document) (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12);

linguistically analyzing the context (analyzing the document) (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12);

selecting a term from the document (analyzing the terms in the document)  
(all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12);

determining if there are more terms in the context to select, and if so,  
selecting another term from the context until there are no more terms to select  
(searching for the same terms in the documents and other terms) (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12);

determining if there are more contexts to identify in the document, and if so,  
identifying another context in the document and repeating the term selecting step for each term in the context until there are no more contexts to identify (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12);

determining if there are more documents to receive, and if so, receiving the next document and repeating the context identifying and term selecting steps until there are no more documents to receive (all document must be analyzed in order to search for the description of prefix, a single word, and postfix description) (paragraph 13, lines 1-4- paragraph 15, lines 1-12).

Regarding on claim 49, Lee teaches linguistically analyzing the one or more contexts further comprises identifying category restrictions satisfied by the context (noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 50, Lee teaches storing information indicating the number of contexts stored for a term in a document, a document identifier associated with the document, and context identifiers indicating the location of the one or more contexts stored in the context array (stored in the database) (paragraph 11, lines 1-16).

Regarding on claim 51, Lee teaches the analyzed contexts are stored as finite state machines(All of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts with in the search results) (paragraph 15, lines 1-3).

Regarding on claim 52, teaches the analyzed contexts are stored as graphs (stored in the database) (paragraph 11, lines 1-16).

Regarding on claim 53, Lee teaches the analyzed contexts are stored as trees (stored in the database) (paragraph 11, lines 1-16).

Regarding on claim 54, Lee teaches the category restrictions comprise morphological features (noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 55, Lee teaches the category restrictions comprise syntactic features(noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 56, Lee teaches the category restrictions comprise computer programs(noun, adjective, adverb, verb, conjunction, determiner (e.g., an article, and preposition)) (paragraph 10, lines 1-12).

Regarding on claim 62, Lee teaches a computer-executable process steps stored on a computer-readable medium, the computer-executable process steps to fulfill an information need, the computer executable process steps comprising:

code to identify a plurality of matches for a partially unspecified query (all of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts within the search results at step 34) (paragraph 15, lines 1-5); and

code to rank a plurality of the matches or portions thereof (the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

Regarding on claim 63, Lee teaches computer-executable process steps stored on a computer-readable medium, the computer-executable process steps to fulfill an information need, the computer executable process steps comprising:

code to identify a plurality of results for a query, the results occurring within documents (all of the M search results from the selected data miners are then combined and scored based on the occurrence of TP, Pre, and Posts within the search results at step 34) (paragraph 15, lines 1-5); and

code to rank the plurality of results based on the content of a plurality of documents in which a result is identified(the scored is calculated by the occurrence of each word contain in the topic, prefix and postfix description) (paragraph 15, lines 5-6).

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at (703) 305-9790.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231.


The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II  
2121 Crystal Drive  
Arlington, VA 22202  
Fourth Floor (Receptionist).

Baoquoc N. To  
September 28, 2004

  
JEAN M. CORRIELUS  
PRIMARY EXAMINER